



Italian National Agency New Technologies,
Energy and Sustainable Economic Development

Contact Person | Roberto Farina

Phone | +39 0516098580

E-mail | roberto.farina@enea.it

PROJECT PARTNERS



REEF 2W

Increased renewable energy
and energy efficiency by integrating,
combining and empowering urban
wastewater and organic waste
management systems

WHAT IS REEF 2W?

The REEF2W project aims at developing and implementing solutions for increasing energy efficiency and renewable energy production in public infrastructures.

REEF2W means to pursue this objective by combining and integrating the relevant public infrastructures of municipal solid waste chain with the wastewater treatment plants (WWTPs), and by upgrading their input mix and their energy outputs.

Research and Academic institution collaborated with industrial partners to develop new strategies for waste and wastewater treatment in the view of the reduction of energy consumption for the treatments and production of renewable energy for the treatment plant itself and for the users of the nearby areas.

OBJECTIVES OF THE PROJECT

1 Shared sound knowledge on WWTP and their potentiality

2 Increasing energy efficiency chances as well as production and usage of renewable energy

3 Regional Strategies to support implementation of waste-to-energy technologies and management tools

RESULTS OF THE PROJECT

1 Software Tool

Development of a software Tool for the decision support at Municipalities and Utilities how to recovery energy and use energy from wastewater and organic wastes.

2 Recommendations for policy reform

Identification of policy barriers and recommendations for an enabling environment for solid waste and wastewater utilities to improve their energy performance.

3 Involvement of local authorities

Involvement of local authorities in the implementation of innovative development plans to decrease the energetic impact of treatment plants.

4 Application in 5 pilot sites

Application of the developed concepts in **5 pilot sites** in Austria, Czech Republic, Germany, Italy and Croatia to demonstrate the feasibility at different scale of treatment plants.